

IETS Foundation 2023 Early Career Achievement Award (Scientist)

Zongliang (Carl) Jiang



Carl Jiang received his PhD from University of Connecticut in 2015, was a Postdoctoral Associate at Yale School of Medicine, and then from 2017-2022, he worked as Assistant Professor, Associate Professor, and Doyle Chambers Distinguished Professor at Louisiana State University. Currently, he is an Associate Professor at the University of Florida and Member of UF Genetics Institute. His research interests are focused on understanding epigenetic mechanisms regulating pre- and peri-implantation development when most pregnancy losses occur. He was among the first to use RNA-seq, whole genome bisulfite sequencing, ATAC-seq and ribosome profiling methodologies to analyze the transcriptome, DNA methylome, chromatin accessibility and translome of gametes and preimplantation embryos from livestock species. Recently, he has reported success in establishing bovine trophoblast stem cells, and developing bovine blastocyst-like structures (blastoids) from cultured stem cells. Dr. Jiang's research has been supported by major funding sources including NIH R01 and USDA-NIFA awards. He has two patents regarding bovine blastoids and bovine trophoblast stem cells technologies. He has published 42 peer-reviewed papers including those published in *Development*, *PNAS*, and *Nature*. He is an Associate Editor of *Frontiers in Veterinary Science*, and has served as

three separate NIH review panels, one standing study section and two special emphasis panels.